Breathing and Respiration PowerPoint Notes

Organ systems function because of the contributions of individual organs, tissues, and cells. The failure of any part can affect the entire system.

Your _____________ happens even when you don’t think about it. When you breathe, you take in ____________ gas from the air and exhale ____________ ____________ gas and ____________ vapor. Your ____________ use the oxygen for cellular respiration and produce carbon dioxide and water.

**Respiration**

Respiration is the entire process by which the body exchanges and uses ____________. Respiration is made possible by the respiratory system. The respiratory system consists of the ____________ and ____________ that lead to the lungs. When you breathe, ____________ is inhaled through your ____________ and ____________. From there, it flows through the throat to the ____________, or voice box. The larynx leads to your lungs. Next, air flows into the ____________, or windpipe. The trachea splits into two tubes called ____________. One bronchus (singular) goes to each lung. Each bronchus branches into thousands of tiny tubes called ____________. Bronchioles end in tiny sacs called ____________. Each of your lungs contains thousands of alveoli. Alveoli are sac-like structures surrounded by ____________ where the exchange of gases takes place. The ____________ is a sheet of muscle that helps draw air into the lungs.

Your ____________ and ____________ systems work together to ensure that every cell in your body has the oxygen it needs to perform ____________ respiration. The failure of any ____________ can affect the entire system. Smoking may lead to inefficient gas exchange in the lungs and cause ____________ disease.